# CUMULATIVE YEAR-END INDEX—1993 SMALL ANIMAL AUTHOR INDEX

A

Allen, D. G., 1081 Anderson, M., 65 Averbeck, G. A., 1217

B

Barthold, S. W., 835 Barton, C. L., 397, 1493 Bosler, E. M., 581 Braakman, A., 1505 Brass, D.A., 33 Bravo, L., 699 Brenneman, K. A., 699 Budsberg, S.C., 177

 $\mathbf{C}$ 

Calvert, C., 711 Chastain, C. B., 197 Codner, L. C., 411 Conboy, G. A., 1217 Constantinescu, G. M., 65

D

Dawson, S., 1347 de Morais, H. S., 1619 Dennis, J. S., 1595 Dewey, C. W., 177 DiBartola, S. P., 1619 Dill-Macky, E., 589 Dillon, R., 711 Dombach, D. M., 833 Dryden, M. W., 569, 821 Dupuis, J., 215

E

Ellis, H., 1199

R

Feldman, B. F., 372, 1479 Ford, S. L., 1517 Fossum, T. W., 549 Frank, L. A., 699

G

Gamble, K. C., 235 Gaskell, R. M., 1347 Gilette, E. L., 795 Giovengo, S. L., 726 Graham, J. C., 1627 Grandjean, D., 45, 203 Gregory, C. R., 1325 Gregory, S. P., 1207 Groves, M. G., 441

H

Harari, J., 215 Harrington, K. S., 441 Hedlund, C. S., 15 Helfand, S. C., 909 Holmes, R. A., 687 Holt, P. E., 1207 Honnas, C. M., 255 Hosgood, G., 15, 1605 Hoskins, J. D., 441 Hribernik, T., 711 Hudelson, P., 427 Hudelson, S., 427

J

Johnson, L., 1356

K

Klein, M. K., 809 Kontos, V. J., 949 Koutinas, A. F., 949

L

Landis, M., 597, 1493 LaRue, S. M., 795 Levy, S. A., 833 Lewis, D. D., 15 Long, R. D., 434

M

MacEwen, E. G., 909 Mandel, N. S., 581 Mann, F. A., 65 Millard, J. R., 535 Moore, A. S., 1039 Mullen, H., 1342

O

O'Brien, M. G., 939 O'Keefe, D. A., 1627 Oakes, A. B., 961 Oakes, M. G., 15 Ogilvie, G. K., 851, 925 Okkens, A. C., 1505 Oliver, J. E., 177

P

Page, R. L., 770 Paragon, B. M., 45, 203 Payne, J. T., 65 Philips, J. R., 671 Prestwood, A. K., 821

R

Rawlings, C. A., 711 Richardson, E. F., 585, 1342 Roberts, W. G., 809 Rogers, K. S., 397, 1493

S

Schneider, E. M., 581 Senker, E. G., 581 Simpson, K. W., 247 Sisson, D. D., 1356 Speciale, J., 1071 Stewart, A. F., 372, 1479 Straw, R. C., 939

T

Taboada, J., 535 Tennant, B., 1054 Thacher, C. W., 383 Thatcher, C. D., 411

V

Vail, D. M., 1031 van Haaften, B., 1505 VanSteenhouse, J. L., 535

W

Wasmoen, T. L., 833 Werner, A. H., 1189 Werner, B. E., 1189 White, P. D., 451 Wilkie, D. A., 58 Willoughby, K., 1054 Wolf, A. M., 601

#### **VOLUME 15 PAGINATION**

Issue	Pages	Issue	Pages
January	1-77	July	897-970
February	161-255	August	1017-1092
March	353-457	September	1177-1254
April	521-604	October	1313-1372
May	657-732	November	1457-1528
June	769-854	December	1585-1637

### SMALL ANIMAL SUBJECT INDEX

A

Acid-base disorders, mixed, 1619–1625, 1636 clinical approach, 1621–1624 compensation, 1619–1621

Angiotensin-converting enzyme inhibitors, congestive heart failure, dogs 1240–1244, 1261

case study, 1243-1244

clinical uses of, 1243 enalapril versus captopril, 1242–1243

human clinical trials with, 1241–1242 pathophysiology of congestive heart failure, 1240–1241

pharmacologic basis therapy with, 124 studies in dogs using, 1242

Atrioventricular block, cats, 1356–1368 case examples, 1364–1366

cause, 1357–1359 clinical presentation, 1359

diagnostic workup and therapy, 1359, 1361,

physiology, 1356–1357 recognition of, 1357

Avian mites, 671–683 feather mites, 671–673 quill mites, 673–674 respiratory tract mites, 680

skin mites, 674–680 subcutaneous mites, 680

C

Cat scratch disease, 441–449 cause, 441–443 clinical description, 443 diagnosis, 443–444 epidemiology, 444 prevention, 445 treatment, 444 Chylothorax, feline 549–567 causes, 553–556 chylous effusion, 549–550 clinical signs, 551 diagnosis, 552, 553 medical management, 556 signalment, 550

surgical options, 556-564

Compendium Challenge, 197–201, 245, 601, 1081, 1084–1085, 1089–1090

Crucial ligament and meniscal injuries, dogs,

care after surgical treatment of cranial cruciate ligament, 225

caudal cruciate ligament injury, 226 meniscal injury, 226–228

partial rupture of the cranial cruciate ligament, 225

rupture of the cranial cruciate ligament, 215-221, 224-225

Cryptorchidism, cats, 1342–1345, 1369 materials and methods, 1342–1343 results, 1343–1344

D

Dentistry, canine, 15–31, 961–970 lingually displaced mandibular teeth, 961–970

crown height reduction, 963–964 interceptive orthodontics, 963 orthodontic correction, 964–968

oral neoplasia, canine, 15–31 benign oral neoplasms, 26–28

diagnosis, 15–18 malignant oral neoplasms, 22–26 other oral neoplasms, 28

treatment, 18–22 Dracunculiasis, canine, 726–729, 732 clinical findings, 728 life cycle, 727 morphology, 726–727 taxonomy, 726 treatment, 728

B

Egg binding, avian, 427–432, 437 causes, 427–428 clinical signs, 429–450

### SMALL ANIMAL SUBJECT INDEX—CONTINUED

diagnosis, 45w hormonal control of oviposition, 428–429 prevention, 450 treatment, 450 Essential fatty acids, 451–457 biochemistry, 451–452 role of polyunsaturated fatty acids in cutaneous inflammation, 452

Flail chest, 65–75
pathophysiology, 66–68
prognosis, 71–72
treatment, 68–71
Flea control, 821–832, 854
indoor environmental control, 822–823
mechanical control, 821–822
on–animal control, 824, 828–829
outdoor environmental control, 823–824
Fleas, 569–579
biology of the cat flea, 570–576
species commonly associated with dogs and cats, 569–570

Genetics, surface DNA, 1071-1079, 1092 biological role of, 1072 recognition of, 1071-1072 role in systemic lupus erythematosus, 1072 therapeutic considerations, 1072-1076 Glove powders, surgical, dangers of, 1199-1204, 1225 changes in method of starch preparation, 1202 early reports of dusting powder granulomas, 1200 experimental studies of tissue reaction to starch, 1202 prophylaxis, 1203 starch as a glove lubricant, 1200-1201 starch sensitivity, 1202-1203 syndrome of starch granulomatous

peritonitis, 1201-1202

Helminth parasites, aquatic turtles, 1217-1224 acanthocephalans, 1220-1221 nematodes, 1220 platyhelminthes, 1217-1220 treatment, 1221 Hemobartonellosis, feline 535-545 clinical signs, 536 diagnosis, 536-537 discussion, 540 organism and its significance, 535 postmortem changes, 537 review of cases, 537-540 transmission and pathogenesis, 535-536 treatment, 537 Hemolytic anemia, immune mediated, 372-381, 394, 1479-1491 basic treatment considerations, dogs, 1486-1487 causes, 376, 380-381 clinical signs, dogs, 1479-1480 complement, 375-376 diagnosis, 1480-1482 immunoglobulin G, 375 immunoglobulin M, 375 immunology, 372 in humans, 373-374 treatment methodology, 1482-1486 Hyperthyroidism and a pericardial cyst, cat, 1250-1254, 1261 feline hyperthyroidism, 1250-1254 clincial signs of, 1251-1252 diagnosis of, 1252-1253 pathogenesis of, 1251 prognosis, 1254 treatment of, 1253-1254 feline pericardial cysts, 1254 Hypocalcemia, clinical, in a serval, 1245-1249

questions on, 711-724

Intrathecal production of *Borrelia burgdorferi*, specific antibodies in dogs, 581–586 case study, 582–583 discussion, 583–584 methods, 584–585

Head trauma management, dogs and cats, 177–195, 201
medical treatment, 178–185
monitoring of intracranial pressure, 186
prognosis and complications, 188
surgical treatment, 185–186
Heartworm disease, cats 687–695
clinical signs, 688
diagnosis, 688–690
pathophysiology, 687–688
prevention, 694

Heartworm problems, answers to typical

treatment, 690-694

Keratoconjunctivitis sicca, in dogs, 58–63 diagnosis, 58–59 treatment, 59–63

Leishmaniasis, canine,
Old World, 949-955, 958-960
cause, 949-950
clinical signs, 951-952
clinopathologic findings, 952-954
diagnosis, 954-955

### SMALL ANIMAL SUBJECT INDEX—CONTINUED

differential diagnosis, 955, 958 pathogenesis, 950-951 prevention, 958 public health considerations, 958 signalment and history, 951 transmission, 950 treatment, 958 United States, 699-708

case study, 704-705 cause, 699-700 clinical findings, 700-701 diagnosis, 701 epidemiology, 700 treatment, 702-703

Lingually displaced mandibular teeth (see Dentistry, canine)

Lyme borreliosis, canine, 833-846 canine model, 836-838 cause, 833-834 control and prevention, 842-844 diagnosis, 838 epidemiology, 834 mode of transmission, 834-835 pathogenesis, 836 serum antibody response, 835-836 syndromes, 838-841 therapy, 841-842

Lyme disease (see Lyme borreliosis, Intrathecal production of Borrelia burgdorferi)

Lymph nodes, canine and feline anatomy and function of, 397-409 architecture, 398-404 development, 397 function, 404-405, 408 diagnostic evaluation of for

lymphadenopathy, 1493-1503 diagnostic evaluation, 1496-1501 examination, 1493-1494 processes that produce

lymphadenopathy, 1494-1496



Nutrition

enteral, use of in small animal medicine, 1054-1069 aetiology of malnutrition, 1054-1055 complications, 1067 enteral nutritional support, 1056-1064 methods of feeding, 1064-1067 nutritional assessment, 1055-1056 in skin disease, 411-424, 457 essential fatty acids, 411-414 vitamin A and synthetic retinoids, 414-417 vitamin E, 417-418 zinc, 418-419 of racing and working dogs, 45-57, 76, 203-211

determination of energy requirements and nutritional impact of stress, 45-57, 76

energy expenditure, 45-52 nutritional impact of stress, 52-56 dehydration, mineral and vitamin adaptations, and practical feeding guidelines, 203-211 effect of dehydration on fluid balance, 203-205 mineral adaptations, 205-207 practical feeding, 207-210 vitamin adaptations, 207



Oncology cancer patients, 925-937 alterations in metabolism, 925-928 appendicular osteosarcoma, canine 939-947, 960 chemotherapy, 944-945 enteral nutritional support for, 928-929, 932-934 metatastic, 945 surgical treatment of, 940-944 chemotherapy, 1031-1037, 1039-1050, 1052 for lymphoma, 1031-1037 induction and maintenance therapy, 1031-1032 rescue therapy, 1033-1036 for nonlymphoid malignant neoplasms, 1039-1050, 1052 actinomycin D, 1044-1046 cisplatin, 1040-1042 combination chemotherapy for solid tumors, 1046-1049 doxorubicin, 1042-1044 idarubicin, 1044 mitoxantrone, 1046 hematopoeitic growth factors, 851-854 erythropoietin, 852 granulocyte colony-stimulating factor, 852-853 granulocyte-macrophage colony-stimulating factor, 853 interleukin-3, 853 pIXY 321, 853 hyperthermia, 781-787, 790-792

> 784-787 direct effects, 781-783 future considerations, 787-790 interaction with other treatment modalities, 783-784 technical considerations, 784 photodynamic therapy, 809-818

clinical status in veterinary medicine,

dosimetry, 810 human clinical trials, 811 mechanism of action, 810-811 photosensitizers, 809-810

veterinary clinical trials, 811-814 radiation, 795-805 advances in radiobiology, 795-797

historical perspective, 795 indications for radiation therapy, 798-802

### SMALL ANIMAL SUBJECT INDEX—CONTINUED

technical advances, 797-798 Oral neoplasia (see Dentistry, canine) Ostriches, impaction of the proventriculus, 235-245

clinical cases of proventricular impaction, 240-243

diagnostic techniques, 236 medical or surgical therapy?, 236 pathophysiology of impaction, 236 postsurgical care, 238-240 proventriculotomy, 237-238 sedation and anesthesia, 236-237

Pancreatic disease, of cats, 589-599 exocrine pancreatic insufficiency, 589-591 insular amyloidosis, 593 miscellaneous diseases, 594 pancreatic flukes, 593-594 pancreatic neoplasia, 591-593

Pancreatitis, acute, in dogs and cats, 247-254 classification of pancreatitis, 247-248 factors associated with the development of pancreatitis, 248-249 initiating mechanisms, 249 interstitial activation, 249-250 pathophysiology, 250-251

Parasitology (see Avian Mites; Canine leishmaniasis; Flea, biology of; Flea, control; Heartworm, answers to typical questions; Heartworm, feline; Lyme borreliosis; )

Peritoneal cavity, drainage of, 1605-1617 drainage physiology, 1605-1614 indications for surgical drainage, 1605

Pregnancy, in dogs, termination of, 1505-1513 ergoline derivatives (bromocriptine, cabergoline), 1508-1509

inhibitor of progesterone synthesis (epostane), 1508

LHRH antagonists (detirelix, RS-15378),

oestrogens, 1506

progesterone antagonists (mifespristone), 1507-1508

prostaglandins, 1506-1507

role of progesterone in maintaining pregnancy, 1505-1506

Pulmonary thromboembolism, canine, clinical features of, 1595-1603

clinical signs and physical examination findings, 1595-1596 diagnostic evaluation, 1596-1599

therapy, 1599-1601

prevalence and distribution of infection in bats, 33-34

relationship of bat rabies to sylvatic rabies cycles, 34-35

relationship of bat rabies to urban rabies cycles, 35-37

Renal transplantation, cats, 1325-1339

anesthesia, 1327

donor selection for, 1326 immunosuppression, 1327

long-term management and complications, 1334-1336

patient selection for, 1326

postoperative care, 1334

preoperative care, 1326-1327

surgery, 1327-1334

Respiratory vaccination, cats, 1347-1354, 1369 feline viral respiratory disease, background,

1347-1348 carrier states, 1348

transmission, 1347-1348

vaccination, 1348-1350

vaccine breakdowns, 1350, 1352

vaccine reactions, 1350

Sarcomas, soft tissue, diagnosis and treatment of, 1627-1635

biologic behavior, 1629

cause, 1627-1628

clinical signs, 1629

diagnosis, 1629-1631

treatment, 1631-1634 Shock syndrome, cats, 1517-1527

clinical signs, 1519

pathophysiology, 1517-1519

treatment, 1519-1520, 1524-1525

Sporotrichosis, feline, 1189-1197, 1224

as a zoonosis, 1194-1196

causative agent, 1189

infection, cats, 1189-1191

infection, humans, 1191-1192

treatment, 1192-1194

Tibial fractures, cats, 383-394 discussion, 389-393

materials and methods, 383-385 results, 385-389

Urethral pressure profilometry, resting, in bitches, 1207-1215

diagnostic value, 1212

possible causes of variation in the urethral

pressure profile, 1208-1212

reproducibility, 1212

Rabies, in insectivorous bats, 33-41 human rabies of bat origin, 37-38 monoclonal antibody characterization of viral variants, 35

## **EQUINE AUTHOR INDEX**

A

Adams, J. G., 1543

B

Baker, G. J., 1101, 1391 Barton, M. H., 81 Beech, J., 92 Bell, B. T. L., 1101, 1391 Bounous, D. I., 611 Buechner-Maxwell, V., 618, 1379 Byars, T. D., 614

C

Carter, G. K., 1642 Chaffin, K. M., 1642 Collatos, C., 976 Constantinescu, G. M., 288 Cudd, T. A., 1547

D

Darien, B. J., 1273 Dixon, T., 614 Doran, R., 463 Dziezyc, J., 1640

E

Eaton, S. A., 485 Evans, A. G., 626

F

Foreman, J. H., 1101, 1391

G

Goetz, T. E., 608 Green, E. M., 288 Green, S. L., 1550

H

Hacker, D. V., 1402 Haugh, C. F., 92 Holbrook, T. C., 1096 Honnas, C. M., 1533 Houpt, K. A., 1265 Howard, R. D., 473

J

Jones, D., 97 Jones, P. A., 92

K

King, C. M., 875 Kroll, R. A., 288

L

Lester, G., 737 Long, M. T., 608

M

Mahaffey, E. A., 265 McDonnell, S. M., 1265 McIlwraith, C. W., 473 Moore, R. M., 278, 989 Murphy, C. J., 1402 N

Neuwirth, L., 274, 489, 984 Newton, J. C., 491

P

Pugh, D. C., 859 Pugh, D. G., 106

R

Rebhun, W. C., 1402 Reed, S. M., 270 Reef, V. B., 92 Romano, S., 976 Rose, R. J., 875 Ross, P. S., 491

S

Schumacher, J., 106 Semrad, S. D., 261

T

Thian, S., 92

U

Uhlinger, C. A., 742

W

Williams, M. A., 859 Williamson, L., 267

Z

Zamos, D. T., 1533

### **VOLUME 15 PAGINATION**

Issue	Pages	Issue	Pages
January	78-121	July	975-995
February	256-303	August	1023-1111
March	460-493	September	1263-1276
April	606-633	October	1373-1410
May	734-749	November	1531-1557
June	857-878	December	1638-1651

### **EQUINE SUBJECT INDEX**

A

Acute hemolytic anemia (see Equine Rounds) Airway hyperresponsiveness (see Respiratory disorders)

disorders)
Anorexia, pony foal (see Equine Rounds)
Arthrodesis, principles and applications of,
horses, 1533–1541
autogenous bone grafting, 1533–1534
carpus joint, 1538–1540
distal tarsal joints, 1537–1538
fetlock joint, 1536–1537
pastern joint, 1534–1536

B

**Bacterial infections** 

obligate anaerobic, 989–995 diagnosis, 989–991 treatment, 991–994

presurgical evaluation, 1534

pathogenesis of obligate anaerobic, 278–287 horses, 280–284 microbiology of anaerobes, 278 prevalence of anaerobes isolated from

horses, 279 prevalence of anaerobic bacteria in normal microbial flora, 279

Brood mares (see also Pregnancy, high-risk, Equine Forum), feeding and nutrition of, 106-115

conception rate and early abortion, affect on, 106-108

feeding recommendations for lactating mares, 112

fescue toxicosis, 109–110 milk production, affect on, 111 parturition and gestational diseases,

110–111 pregnancy, affect on, 108–109

 $\mathbf{C}$ 

Calcific band keratopathy, horses, 1402–1410 clinical cases, 1403–1406 laboratory findings and outcome, 1406–1407

Cataracts (see Equine Therapeutics, Update on)

Cerebrospinal fluid, analysis of, 288–302 cell counts and cytologic examination, 289–292

electrolytes, calcium, phosphorus, and magnesium, 299–300

enzymes, 296–299 glucose, 296

gross appearance, 288-289

lactic acid, 299 protein determinat

disorders)

protein determination, 292–293 protein fractionation, 293–296

specific gravity, 289 Colic (see Equine Forum, Gastrointestinal D

Developmental orthopedic disease, 859–873, 878

client education concerning, 864 management factors, 868–870 monitoring growth rate, 864–865 pathophysiology, 859–861 proposed causes, 861–864 ration evaluation, 865, 868 Diagnostic Dilemma, 92–95, 274–277, 302,

611-613, 737-741, 984-987

Ð

Epithelium, respiratory, normal, 618–625 airway secretions, 620–621 function, 621–623 structure, 618–620

Equine bacterial pleuropneumonia, 1642–1650 bacterial isolates, 1647–1648 epidemiology, 1643 pathophysiology, 1643–1647

**Equine Forum** 

brood mares, pregnant with colic, 117–120
anesthetic and surgical care of, 119–120
cecal perforation, 119
colic and fetal losses, 117–118
jejunal incarceration through a
mesenteric rent, 119

large colon volvulus, 118–119 uterine torsion, 119

heparin therapy, rationale and clinical indications, 1273–1276 insurance, 614–617, 625

treadmills, use in equine practice, 875-878

Equine Rounds
acute hemolytic anemia, 261–269
case presentation, 261–264
evaluating anemia, horses, 265–267
highlights of blood transfusion, 267–269
anorexia, pony foal, 1543–1552
Pythium insidiosum, osseous involvement

by, 485–493
Equine Therapeutics, Update on cataracts, management of, 1640–1641, 1650 head trauma management, 270–273 neurologic examination, 272 pathophysiology, 270–271 physical examination, 271–272 treatment, 272–273

hyponatremia, slow versus rapid correction, 1096–1099 melanomas, treatment of, 608–610 Ethmoid hematoma, progressive, (see Respiratory disorders)

F

Fecal egg count data, uses of, 742–749 factors that affect the magnitude of results, 745–744 general interpretation of results, 744 laboratory methods, 742–745

use of results, 744-747

## **EQUINE SUBJECT INDEX—CONTINUED**

Gastrointestinal disorders (see also Equine Forum)
cecal impaction, 976–992
diagnosis, 977–978
motility and digestive function, 977
pathogenesis, 977
retrospective study, 979–980

Head trauma management (see Equine
Therapeutics, Update on)
Heparin therapy, (see Equine Forum)
Hyponatremia (see Equine Therapeutics,
Update on)

treatment, 978-979

Insurance (see Equine Forum)
Intestinal obstruction, simple, field
management of, 463–471, 482
analgesic and ancillary treatment, 470
cecum, 469
large colon, 465–468
small colon, 469
small intestine, 464–465
stomach, 463–464

Joint disease
sodium hyaluronate, treatment of, 473–482
hyaluronate, clinical equine joint
disease, 475–476
molecular weight and efficacy, 476–478
physical properties, 475
possible mechanism of action of
exogenous sodium hyaluronate, 475
synthesis and function of endogenous
hyaluronate, 473–474
traumatic arthritis and degenerative joint
disease, pathophysiology of, 474–475

Melanomas, treatment of, (see Equine Therapeutics, Update on)

Osteomyelitis, vertebral body, equine neonatal septicemia and, 1233–1239, 1249

Parasitology (see Fecal egg count data, uses of)
Placenta, formation, function, and clinical
evaluation, 97–105
Pythium insidiosum (see Equine Rounds)
Regurgitation, nasal, of milk, foals, 81–93
causes, 82–89
diagnostic approach, 82

general considerations, 89–90 normal nursing and swallowing, 81–82

Respiratory disorders airway hyperresponsiveness, 1379-1389 causes of airway inflammation and epithelial damage, 1380-1381 allergens, 1380 respiratory irritants, 1380 viral and bacterial infections, 1380-1381 pathogenesis of, 1381-1385 additional mediators of hyperresponsiveness, 1384-1385 autonomic and nonautonomic control of airway response, 1382-1384 epithelial damage, 1382 inflammatory cell infiltrates, 1381-1382 ethmoid hematoma, progressive, 1101-1111, 1391-1399 anatomy of ethmoid area, 1101-1102 cause, 1392-1393 clinical signs, 1107-1108 computer data base of epidemiologic information, 1103-1104 diagnosis, 1108-1109 differential diagnosis, 1109 historical perspective, 1102-1103 lesional characteristics, 1391-1392 lesional classification and location, 1392 prevalence, 1107

Stereotypies, 1265–1272 locomotor, 1269–1271 oral, 1266–1269

Treadmills, use in equine practice, (see Equine Forum)

signalment, 1103

treatment, 1393-1397

Urticaria, 626–632
causes, 626
clinical signs, 627
diagnostic approach to chronic disease,
628–630
differential diagnosis, 627–628
pathophysiology, 626–627
prognosis, 631
therapy, 630–631

### FOOD ANIMAL AUTHOR INDEX

A

Adams, R., 1167 Aldridge, B., 1167 Anderson, G. A., 1447

B

Bechtol, D. T., 1425 Blagburn, B. L., 882 Blikslager, A. T., 1571 Bohlender, R. E., 1149 Breisch, S. A., 1447 Bristol, D. G., 1571

 $\mathbf{C}$ 

Cady, R. A., 1655 Carlson, A. R., 345 Caulkett, N. A., 1155 Cole, R. A., 882 Corey, M. M., 345 Cribb, P. N., 1155

D

Dee, S. A., 345 Dewey, C. E., 1013 Dijkhuizen, A. A., 515 Dohoo, I. R., 515 Doig, G. S., 133, 143 Dubey, J. P., 882

E

Ehrlich, J., 1655 Engelken, T. J., 315 Ewing, P. J., 1287

F

Fedorka-Cray, P. J., 1447 Ferguson, J. D., 646, 1127 Fetrow, J., 1655 Field, R. W., 149, 323 Forrest, C. S., 315 Fretz, P. B., 1155 Friendship, R. M., 143 Furman, J. W., 1425 G

Galligan, D. T., 646, 1127 Garry, F., 1167 Gray, J. T., 1447 Grotelueschen, D. M., 1425 Guterbock, W. M., 1655

H

Hady, P. J., 637 Hathcock, J. T., 1160 Hoffman, L., 1447 Holland, P. S., 149, 323 Hunt, E. L., 1571

J

Janzen, E. D., 1155 Johnston, L. J., 133

L

Lehman, F. D., 315 Lindsay, D. S., 882 Little, R. D., 315 Lloyd, J. W., 637

M

MacDonald, D. G., 1155 McKenzie, D. M., 1287 Moll, D. H., 1160 Moncol, D. J., 755 Montes, A. J., 1131 Moore, G. A., 999 Murray, W., 1665

N

Nuehring, L. P., 882

O

Oetjen, B. D., 891 Oetzel, G. R., 1138

P

Panciera, R. J., 1287 Peter, A. T., 1665 Pugh, D. G., 1131  $\overline{\mathbf{R}}$ 

Reneau, J. K., 497 Ruegg, P. L., 309

S

Scheepens, K., 125 Snyder, D. E., 757

T

Taylor, C. E., 315 Teclaw, R. F., 1665 Thornsberry, R. M., 1433 Tielen, M., 125 Toombs, R. E., 149, 323 Trower, C. J., 642

U

Urban, J. F. Jr., 1297

V

Varner, M. A., 1655 Vestweber, J. G., 1561

W

White, D. G., 335 Whitmore, H. L., 1415 Wikse, S. E., 149, 323 Wolfe, D. F., 1160

Y

Yeske, P., 1307

Z

Zajac, A. M., 999 Zdrojewski, J., 1655

### VOLUME 15 PAGINATION

Issue	Pages	Issue	Pages
January	124-160	July	997-1016
February	305-352	August	1113-1175
March	495-520	September	1279-1312
April	635-656	October	1413-1456
May	751-768	November	1559-1584
June	881-896	December	1652-1688

### FOOD ANIMAL SUBJECT INDEX

Abomasal impaction, cattle, 1571-1576 causes, 1571-1572

clinical signs, 1572

diagnosis, 1572-1573 prognosis, 1574

treatment, 1573-1574

Actinobacillus (Haemophilus)

pleuropneumoniae, 1447-1455

epidemiology, 1448 history and characterization, 1447-1448

isolation and serotyping, 1449-1452

pathology, clinical signs, and lesions,

1448-1449

treatment, 1452-1453

Anthelmintic production trial, experimental design and critical evaluation of, 757-767

experimental design and analysis in parasitologic and production studies, 758-764

parasitism, effects of, on production, 758 stocker cattle, production of, United States,

trichostrongyle infections, epidemiologic considerations of, 758

Assay validation, clinical relevance of, 1665-1676

factors that affect validation criteria, 1665-1667

quality control, 1673-1674

setting analytic performance goals, 1667-1670

validation of an assay, 1670-1673

Average daily gain (see Swine Production Management)

**Beef Production Management** 

beef cattle ranches, unprofitable practices in, 149-159

computer applications, 158

evaluation of ranch's overall financial status, 151-154

unprofitable management practices,

identification of, 154-158

integrated resource management. standardized performance analysis,

veterinarian, 1425-1430

quality assurance, 1149-1153

ranch plan, formulating, implementing, and monitoring, 323-327, 330-333

evaluation of improvements, 326-327,

330-331

formulation, 323-324

implementation, 324-326 monitoring, 326

Bovine practice, informational resources for,

(see Dairy Production Management)

Breeding in ewes, artificial control of, 642-645,

advancing the breeding season, 642-644

increasing ovulation rate, 644

induction of parturition, 644

synchronisation of oestrus in the breeding season, 644

Castration, of mature bulls, 1155-1159

materials and methods, 1156-1157

results, 1157

surgical technique, 1157

xylazine hydrochloride epidural anesthesia, use of, 1155-1159

Cavernosography, diagnosis of erection

failure, bulls, 1160-1165, 1175 anatomy and physiology of erection, 1160-1161

blockage of the corpus cavernosum penis, 1163

normal contrast study, 1162

technique, 1161-1162

vascular shunts, 1162-1163

Coccidiosis, dairy cattle (see Dairy Production Management)

Colostral supplementation, ruminants, 335-342, 350

absorption of colostrum, 337-338

alternatives to colostrum, 340-341

### FOOD ANIMAL SUBJECT INDEX—CONTINUED

colostral substitutes and supplements, 338–340
colostral transfer, failure of, 336–337
colostrum, role of, 335–336
Colostral transfer, role in neonatal calf management, 1167–1175
assessment of neonatal immunoglobulin status, 1168
investigating poor colostral transfer, 1171–1174
limitations, failure, passive transfer concept, 1168–1171

Culling (see Dairy Production Management)

Dairy practitioners, economic issues for,

management strategies and applications, 637-641, 656 mission statement, 637-639 management by wandering around, 640 team management, 639-640 **Dairy Production Management** coccidiosis in dairy cattle, 891-895 clinical management, 894 control and prevention, 894-895 description of organism, 891 diagnosis, 892 disease, 891-892 management factors, 892-894 culling, techniques involved in making decisions for, 515-520 biological reasons, 516-517 economic reasons, 517-518 herd policy, 518-519 epidemiologic principles in dairy production medicine, investigating

herd problems, 309–313 analytic methods, 311–313

descriptive methods, 310-311

services, 1655–1662 prostaglandin synchronization programs in dairy herds, 646–655, 1127–1150 attributes of prostaglandin use in dairy herds, 650–654 reproductive efficiency, 646–648 response, 648–650

informational resources for bovine practice,

new electronic and telecommunication

Epidemiologic principles in dairy production medicine (see Dairy Production Management)

Eubacterium suis. new observations on the

epidemiology of, 345–348 identification of a female carrier state, 345–346 survival outside the pig, 346–348

Feed intake, maximizing, lactating sows, 135–141, 147 measuring current feed intake, 135–135 methods, increasing feed intake, 135–140 Gastrointestinal nematodes, in sheep,
999–1011
acute disease, control of, 1003
anthelmintics, 1007–1008
control programs, 1003–1007
diagnosis, 1000–1001
hypobiosis, 1003
immunity, 1000
important parasite species, 999–1000
life cycle and epidemiology, 1001–1003
resistance to, 1008
Gilt performance, improvement of (see Swine
Production Management)

Hyperkeratosis, bovine, 1287–1295 case report, 1288–1290 clinical signs, 1288 diagnosis, 1290–1294 pathology, 1288

Integrated resource management, analysis connection, veterinarian (see Beef Production Management)
Integrated resource management programs, a new tool for, 315–321, 350 application of IRM SPA in Mississippi, 517 data collection, 316–317 financial analysis, 318–320 history, 315–316 objectives, 316 production analysis, 317–518

Mastitis clinical, antibiotic residues, 497-504 losses, 497-500 monitoring systems, 500 monitoring programs, implementation of, 500-502 records, production medicine programs, 497-504 virulence, 1561-1569, 1576 characteristics of Staphylococcus aureus, 1561 defense mechanisms, 1562-1563 establishment of infection, 1563-1566 virulence factors, 1561-1562 Milk fever, use of anionic salts in prevention of, 1138-1147 acidogenic diets, 1138-1142 practical considerations in feeding, 1142-1145

Nematode parasites of swine, acquired immunity to, 1297–1305, 1311

Ascarus suum (large roundworm), 1298–1299

Oesophagostomum (nodular worm), 1302–1304

Strongyloides ransomi (threadworm), 1302

#### FOOD ANIMAL SUBJECT INDEX—CONTINUED

Trichinella spiralis (muscleworm), 1300–1302 Trichuris suis (whipworm), 1299–1300 Neospora, in cattle, abortions induced by, 882–889, 895–896 clinical signs, 884–886

diagnosis, treatment, and control, 887–888 epidemiology, 884 experimental transplacental infections in

experimental transplacental infections in ruminants, 886–887

life cycle of organism, 882-884

Parasitology (see Gastrointestinal nematodes; Swine Production Management; Nematode parasites) Porcine reproductive and respiratory syndrome (see also Swine Production Management), 1255–1261 Postpartum metritis, clinical approach to, 1131–1137, 1147 clinical signs, 1132 prevention, 1135

treatment, 1132–1135
Prostaglandin synchronization programs in dairy herds (see Dairy Production Management)

Quality assurance (see Beef Production Management)

Ranch plan (see Beef Production Management)
Rectal prolapse, feeder lambs, clinical
evaluation, 1433–1445

Somatotropin, bovine, reproductive management of cows supplemented with, 1415-1422 biological effects of, 1415-1416 effect on reproduction, 1416-1417 new strategies for reproductive management, 1417-1419 Stress-free system for swine (see Swine Production Management) Swine Production Management average daily gain as measure of production, 1013-1016 gilt performance, improvement of, 143-147 early puberty, 145-146 feeding, 146-147 health, 144-145 housing, 146 monitoring gilt performance, setting production targets, 143-144 management of internal parasitism, 753-755, 767 porcine reproductive respiratory syndrome, 1307-1311

stress-free system for swine, 125-127

### **Index to Advertisers**

#### **Small Animal**

Veterinary Learning Systems Co., Inc.  Perspectives—A Resource for Women in  Veterinary Medicine <sup>TM</sup>	1590–159
Synbiotics Diagnostics and Vaccines	1618
SmithKline Beecham Animal Health Leukocell 2	1604
Schering-Plough Animal Health Intra-Trac II Intranasal Vaccine	Cover 4
Ralston Purina Co. CNM Clinical Nutrition Management OM-Formula Dry Feline Diet	1610–1611
Next Step Enterprises, L.P. Safe-Step	1625
Intervet Small Animal Biologicals and Pharmaceuticals	1588
Hill's Pet Nutrition, Inc.  Prescription Diet Health BlendCov Science Diet Custom Care	
Hess & Clark Animal Care Group (KenVet) KenVet Nutritional Care	1623
Daniels Pharmaceuticals, Inc. SOLOXINE	1594
ContinuEd Hawaii Veterinary Symposium	1635
NARAMUNE-2	1593

#### **Equine**

Luitpold Pharmaceuticals, Inc.		
Adequan i.m.	1638,	1651

#### **Food Animal**

American Cyanamid Company/Animal Health and Nutrition Division	
PRESPONSE	1664
North American Compendiums Inc.	
COMPAS Material Safety Data Service	1673
Schering-Plough Animal Health	
Colostrx	1669
SmithKline Beecham Animal Health	
PR-Vac Plus	Cover 3
ScourGuard 3(K)/C	1652

J-5 Bacterin......1654, 1659

Pirsue Aqueous Gel......1662–1663

Upjohn Company, The



